NC/PMC/PD/MW-13/2018-19/AS2-C1 Date: 02-03-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Construction of Ambedkar Samudaya Bhavana At Mallasandra in Ward no.13 in Shettihalli Sub Division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Narahari. D, Benaka Developers & Projects Pvt Ltd.

PHYSICAL TESTS ON CEMENT

Brand : ACC
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**168 min**	Shall not be less than 30 min
2	Final setting time	**293min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.97 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.14 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**29.11 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/PMC/PD/MW-13/2018-19/AS2-FA1 Date: 02-03-2019

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
(Project*: Construction of Ambedkar Samudaya Bhavana At Mallasandra in Ward no.13 in Shettihalli Sub Division.)
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Narahari. D, Benaka Developers & Projects Pvt Ltd.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**98.10**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**84.85**	60-95	75-100	85-100	
01.18	**79.40**	30-70	55-90	75-100	
600. mic	**43.65**	15.34	35-59	60-79	
300.mic	**25.70**	5-20	8-30	12-40	
150.mic	**7.25**	0-10	0-10	0-10	

TABLE 1.2 :

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**16.95 %**	------
2	Silt Content	-----	**0.61 %**	Not more than 8%
3	Specific Gravity	-----	**2.60**	--------

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NC/PMC/PD/MW-13/2018-19/AS2-CA1 Date: 02-03-2019

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Construction of Ambedkar Samudaya Bhavana At Mallasandra in Ward no.13 in Shettihalli Sub Division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Narahari. D, Benaka Developers & Projects Pvt Ltd.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	96.80	85-100	90 - 100
10 mm	49.15	0 - 20	25 - 55
4.75 mm	3.55	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	22.10 %	Not to exceed 25 %
2.	Crushing value	27.85 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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NC/PMC/PD/MW-13/2018-19/AS2-CB1 Date: 22-04-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction of Ambedkar Samudaya Bhavana At Mallasandra in Ward no.13 in Shettihalli Sub Division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Narahari. D, Benaka Developers & Projects Pvt Ltd.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	15-04-19	22-04-19	07	22500	465	20.67	**20.74**
	002	‘’	“	‘’	“	480	21.33	
	003	‘’	“	‘’	“	455	20.22	

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NC/PMC/PD/MW-13/2018-19/AS2-CB1A Date: 13-05-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Construction of Ambedkar Samudaya Bhavana At Mallasandra in Ward no.13 in Shettihalli Sub Division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Narahari. D, Benaka Developers & Projects Pvt Ltd.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	15-04-19	13-05-19	28	22500	640	28.44	**27.93**
	002	‘’	“	‘’	“	625	27.78	
	003	‘’	“	‘’	“	620	27.56	

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NC/PMC/PD/MW-13/2018-19/AS2-CB2 Date: 02-05-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction of Ambedkar Samudaya Bhavana At Mallasandra in Ward no.13 in Shettihalli Sub Division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Narahari. D, Benaka Developers & Projects Pvt Ltd.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	25-04-19	02-05-19	07	22500	475	21.11	**20.74**
	002	"	"	"	"	460	20.44	
	003	"	"	"	"	465	20.67	

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NC/PMC/PD/MW-13/2018-19/AS2-CB3 Date: 04-05-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction of Ambedkar Samudaya Bhavana At Mallasandra in Ward no.13 in Shettihalli Sub Division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Narahari. D, Benaka Developers & Projects Pvt Ltd.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	27-04-19	04-05-19	07	22500	470	20.89	21.11
	002	‘’	“	‘’	“	490	21.78	
	003	‘’	“	‘’	“	465	20.67	

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NC/PMC/PD/MW-13/2018-19/AS2-CB2A

Date: 23-05-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Construction of Ambedkar Samudaya Bhavana At Mallasandra in Ward no.13 in Shettihalli Sub Division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Narahari. D, Benaka Developers & Projects Pvt Ltd.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	25-04-19	23-05-19	28	22500	630	28.00	**28.15**
	002	‘’	“	‘’	“	645	28.67	
	003	‘’	“	‘’	“	625	27.78	

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